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# Computer Vision, Imaging and Computer Graphics

Theory and Applications

International Joint Conference, VISIGRAPP 2011  
Vilamoura, Portugal, March 5-7, 2011  
Revised Selected Papers



Springer



# Preface

This book includes extended versions of the selected papers from VISIGRAPP 2011, the International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications, which was held in Vilamoura, Algarve, Portugal, during March 5–7, 2011 and organized by the Institute for Systems and Technologies of Information, Control and Communication (INSTICC).

VISIGRAPP comprises four conferences, namely, the International Conference on Computer Vision Theory and Applications (VISAPP), the International Conference on Computer Graphics Theory and Applications (GRAPP), the International Conference on Imaging Theory and Applications (IMAGAPP), and the International Conference on Information Visualization Theory and Applications (IVAPP).

VISIGRAPP received a total of 405 paper submissions from more than 50 countries. After a rigorous double-blind evaluation, only 14% of the papers were accepted and published as full papers. These numbers clearly show that this conference is aiming at high quality standards and is now an established venue for researchers in the broad fields of computer vision, computer graphics, and image analysis and information visualization. From the set of full papers, 15 were selected for inclusion in this book. The selection process was based on quantitative and qualitative evaluation results provided by the Program Committee reviewers as well as the feedback on paper presentations provided by the Session Chairs during the conference. After selection, the accepted papers were further revised and extended by the authors. Our gratitude goes to all contributors and reviewers, without whom this book would not have been possible.

Additionally 84 papers were accepted for short presentations and 49 were accepted for poster presentations. These works were not considered for the present book selection process.

VISIGRAPP 2011 included four invited keynote lectures, presented by internationally renowned researchers, whom we would like to thank for their contribution to reinforce the overall quality of the conference, namely, in alphabetical order: Brian A. Barsky (University of California, Berkeley, USA), Vittorio Ferrari (ETH Zurich, Switzerland), Carlos González-Morcillo (University of Castilla-La Mancha, Spain) and Joost van de Weijer (Autonomous University of Barcelona, Spain).

We wish to thank all those who supported VISIGRAPP and helped to organize the conference. On behalf of the Conference Organizing Committee, we would like to especially thank the authors, whose work was the essential part of the conference and contributed to a very successful event. We would also like to

thank the members of the Program Committee, whose expertise and diligence were instrumental to ensuring the quality of the final contributions. We also wish to thank all the members of the Organizing Committee whose work and commitment were invaluable. Last but not least, we would like to thank Springer for their collaboration in getting this book to print.

October 2011

Gabriela Csurka  
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Vittorio Ferrari	ETH Zurich, Switzerland
Brian A. Barsky	University of California, Berkeley, USA
Joost van de Weijer	Autonomous University of Barcelona, Spain

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